

## SECTION 80

## FENCES

Fences shall conform to Section 80 of the Caltrans Standard Specifications and these City Standard Specifications.

## 80-1 GENERAL

**80-1.05 Temporary Fencing.** - Temporary fencing, for the control, safety or convenience of traffic or the preservation of property required during the course of construction, shall conform to Section 80-4 of these specifications or as otherwise specified in the special provisions.

## 80-4 CHAIN LINK FENCE

**80-4.01 Materials.** - Chain link fence and gate materials shall conform to the specification provisions of AASHTO M181 and ASTM A392 and as modified herein.

The Contractor, through the manufacturer or fabricator, shall establish the necessary quality control and inspection practice to assure compliance with these specifications. The Contractor shall furnish a certificate of compliance, as specified in Section 6-1.07, "Certificates of Compliance," that all of the required tests have been made and the results comply with the requirements of these specifications.

**80-4.01A Posts and Braces.** - The base metal for the manufacture of posts and braces shall conform to the requirements of AASHTO M 181, except that steel made by the oxygen furnace process will be acceptable.

Gate posts shall be fabricated from pipe conforming to the requirements of ASTM A120 (Schedule 40).

Posts and braces shall be galvanized in accordance with the provisions in Section 75-1.05 "Galvanizing," except that galvanizing and sampling of pipe posts for performing galvanizing tests shall conform to the requirements of ASTM A120.

Posts and rails for vinyl coated chain link fence shall be hot dipped galvanized and covered with 2 coats of black metal paint applied over a metal primer.

**80-4.01B Fabric.** - The wire used in the manufacture of the fabric shall be 9-gage, or 0.148-inch nominal diameter coated wire, for all fences. The base metal of the fence fabric shall be steel of a quality and purity that, when drawn to the gage size of the wire specified and coated with zinc, the finished fence shall be of uniform quality and have the properties and characteristics as prescribed herein.

The diameter of the coated wire shall be determined as the average of 2 readings taken at right angles to each other on the straight portion of parallel sides of the mesh and measured to the nearest 0.001 inch. The permissible variation in diameter of the coated wire shall be plus or minus 0.005 inch. The tolerances shall apply to uniform areas of the galvanized wire only.

The size of mesh shall be 2 inches except for tennis court fabric, which shall be 1-3/4 inches. The permissible variation in size of mesh shall be plus or minus 1/8-inch. The size of mesh shall be determined by measuring the minimum clear distances between the wires forming the parallel sides of the mesh.

Chain link mesh to have slats inserted shall be 3 inch by 5 inch mesh.

Steel chain-link fabric is classified according to the weight of zinc coating on the fabric. The weight of zinc coating on Class 1 fabric shall be 1.2 ounces per square foot of uncoated wire surface. The average weight of zinc coating for Class 2 fabric shall not be less than 2.0 ounces per square foot of uncoated wire surface as determined from the average results of 2 or more specimens and not less than 1.8 ounces per square foot of uncoated wire surface for any individual specimen.

Unless otherwise shown on the plans or specified in the special provisions, Class 1 chain link fence fabric shall be used.

Vinyl coated chain link fence shall be black polyvinyl chloride coated steel link fabric and fittings. Polyvinyl chloride shall be applied by the thermal extrusion process.

**80-4.01C Miscellaneous.** - Wire fasteners, if required, shall consist of a 12-gage (0.108 inch diameter) galvanized, hard, bright, basic iron wire "S" clip with 1/2-inch inside diameter loops and 1/4-inch end openings.

**80-4.01D Gates.** - Drive gates are classified as either single or double. Welding shall conform to the requirements of AWS D2.0. Gate frames shall be galvanized after fabrication.

**80-4.01E Slats.** - Chain link with slats shall be Viewguard Fabric with PDS slats or approved equal. Chain link fabric shall be pre-woven with 2-3/8 inches wide brown virgin polyethylene slats with ultra violet inhibitors with a wall thickness of .030 inch plus .003 inch. The length of the slats shall be 3-1/2 to 3-3/4 inches shorter than the height of the chain link fence to allow for the installation of the bottom retaining channel.

**80-4.02 Construction.** - At locations where breaks in a run of fencing are required for gates or at intersections with existing fences, adjustments in post spacing shall be made to conform to the requirements for the type of closure indicated.

Unless directed by the Engineer, temporary guys or other braces as required shall be installed to hold posts in proper position until the concrete has set.